

lowa First:

Using cost-benefit analysis to support accountability and budgeting

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Results First

- Iowa is one of 11 states partnering with Pew to employ a cutting-edge costbenefit analysis model that analyzes key state policy areas
- Enables states to analyze a wide range of policy choices and identify those that can maximize outcomes AND reduce costs
- Model can assess individual programs and portfolios of related policies



Approach in a nutshell

- 1. Aggregate best national research to identify evidence-based programs that are effective
- 2. Estimate these programs' impact if implemented in lowa, based on the state's population characteristics
- 3. Use Iowa fiscal data to estimate total costs and benefits for each program
- Result Predicted state return on investment for each program

Model successfully used in Washington State

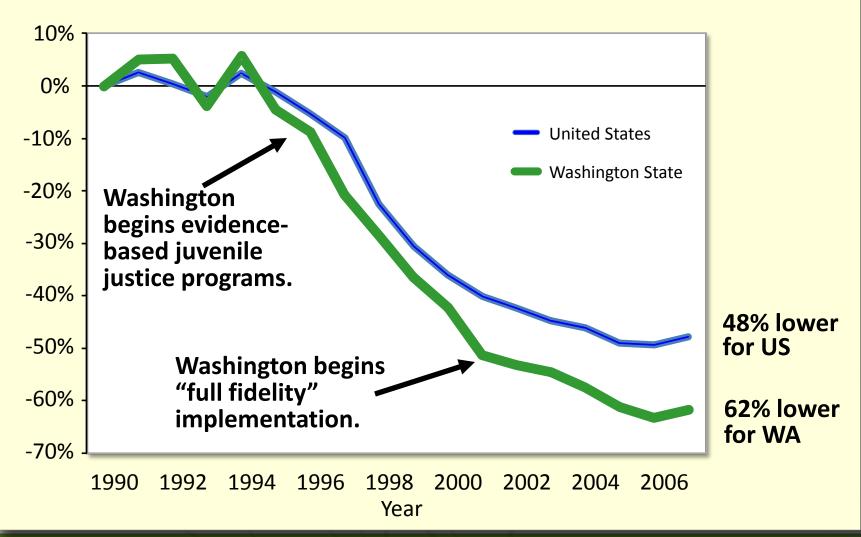


- Developed by Washington State Institute for Public Policy
- Washington has used model for many years to help achieve better outcomes at lower costs in many policy areas
 - Example criminal justice: Washington State has avoided \$1.3 billion per biennium AND achieved a lower crime rate



Keeping Track of Results: Juvenile Arrest Rates

Change since 1990 in the United States and in Washington (WA) State



Example: Functional Family Therapy

(Washington State - 2010 Dollars)

Benefits Per Family		Main Source of Benefits
Reduced crime	\$31,745	Lower state & victim costs
Increased high school graduation	\$5,686	Increased earnings
Reduced health care costs	\$307	Lower public costs
Total Benefits Per Family	\$37,739	
Cost Per Family	\$3,190	
Net Present Value	\$34,549	
Benefits Per Dollar of Cost	\$11.86	

Addendum (distribution of benefits)

\$3,599 = Benefits to participant \$8,336 = Benefits to taxpayers

\$21,636 = Benefits to others (crime victims)

\$4,167 = Other benefits

Example: Nurse Family Partnership (Washington State data and 2010 dollars)

Benefits Per Family		Main Source of Benefits
Reduced child abuse and neglect	\$1,031	Lower state / victim costs
Educational gains	\$19,590	Increased earnings
Reduced crime	\$5,580	Lower state / victim costs
Health care & mental health	\$5,246	Increased earnings
Public Assistance Increased K-12 costs	\$637 -\$1,820	Reduced payments Special ed & retention
Reduced substance abuse	\$61	Earnings, health care \$
Total Benefits Per Family	\$30,325	
Cost Per Family	\$9,421	
Benefits Per Dollar of Cost	\$ <u>3.23</u>	

Can use results to rank programs in a "Consumer Reports" list



Exhibit 4 Reducing Crime With Evidence-Based Options: What Works, and Benefits & Costs							
Washington State Institute for Public Policy Estimates as of October, 2006	Effect on Crime		Benefits and Costs				
Estimates as of October, 2006	Outcomes Percent change in crime	(Per P Benefits to	articipant, Net P Benefits to	resent Value, 2006	Benefits (total)		
Notes:	outcomes, & the number of	Crime Victims	Taxpayers	(marginal program	Minus		
n/e" means not estimated at this time.	evidence-based studies on	(of the reduction		cost, compared to	Costs		
Prevention program costs are partial program costs, pro-rated to match crime outcomes.	(in parentheses)		in crime)	the cost of alternative)	(per participant)		
Programs for People in the Adult Offender System	(1)	(2)	(3)	(4)	(5)		
Vocational education in prison	-9.0% (4)	\$8,114	\$6,806	\$1,182	\$13,738		
Intensive supervision: treatment-oriented programs General education in prison (basic education or post-secondary)	-16.7% (11) -7.0% (17)	\$9,318 \$6,325	\$9,369 \$5,306	\$7,124 \$962	\$11,563 \$10,669		
Cognitive-behavioral therapy in prison or community	-6.3% (25)	\$5,658	\$4,746	\$105	\$10,009		
Drug treatment in community	-9.3% (6)	\$5,133	\$5,495	\$574	\$10,054		
Correctional industries in prison Drug treatment in prison (therapeutic communities or outpatient)	-5.9% (4) -5.7% (20)	\$5,360 \$5,133	\$4,496 \$4,306	\$417 \$1.604	\$9,439 \$7,835		
Adult drug courts	-8.0% (57)	\$4,395	\$4,705	\$4,333	\$4,767		
Employment and job training in the community	-4.3% (16)	\$2,373	\$2,386	\$400	\$4,359		
Electronic monitoring to offset jail time Sex offender treatment in prison with aftercare	0% (9) -7.0% (6)	\$0 \$6.442	\$0 \$2.885	-\$870 \$12.585	\$870 -\$3,258		
Intensive supervision: surveillance-oriented programs	0% (23)	\$0	\$0	\$3,747	-\$3,747		
Washington's Dangerously Mentally III Offender program	-20.0% (1)	\$18,020	\$15,116	n/e	n/e		
Drug treatment in jail Adult boot camps	-4.5% (9) 0% (22)	\$2,481 \$0	\$2,656 \$0	n/e n/e	n/e		
Domestic violence education/cognitive-behavioral treatment	0% (9)	\$0	\$0	n/e	n/e		
Jail diversion for mentally ill offenders	0% (11) 0% (4)	\$0 \$0	\$0 \$0	n/e n/e	n/e n/e		
Life Skills education programs for adults	0% (4)	\$0	\$0	n/e	n/e		
Programs for Youth in the Juvenile Offender System Multidimensional Treatment Foster Care (v. regular group care)	-22.0% (3)	\$51,828	\$32,915	\$6,945	\$77,798		
Adolescent Diversion Project (for lower risk offenders)	-19.9% (6)	\$24,328	\$18,208	\$1,913	\$40,623		
Family Integrated Transitions Functional Family Therapy on probation	-13.0% (1) -15.9% (7)	\$30,708 \$19,529	\$19,502 \$14,617	\$9,665 \$2,325	\$40,545 \$31,821		
Multisystemic Therapy	-10.5% (10)	\$12,855	\$9.622	\$4,264	\$18,213		
Aggression Replacement Training	-7.3% (4)	\$8,897	\$6,659	\$897	\$14,660		
Teen courts Juvenile boot camp to offset institution time	-11.1% (5) 0% (14)	\$5,907 \$0	\$4,238 \$0	\$936 -\$8,077	\$9,208 \$8,077		
Sex offender cognitive-behavioral treatment	-10.2% (5)	\$32,515	\$8,377	\$33,064	\$7,829		
Restorative justice for low-risk offenders	-8.7% (21)	\$4,628	\$3,320	\$880	\$7,067		
Interagency coordination programs Juvenile drug courts	-2.5% (15) -3.5% (15)	\$3,084 \$4,232	\$2,308 \$3,167	\$205 \$2,777	\$5,186 \$4,622		
Regular surveillance-oriented parole (v. no parole supervision)	0% (2)	\$0	\$0	\$1,201	-\$1,201		
Juvenile intensive probation supervision programs	0% (3) 0% (9)	\$0	\$0	\$1,598	-\$1,598		
Juvenile wilderness challenge Juvenile intensive parole supervision	0% (9) 0% (10)	\$0 \$0	\$0 \$0	\$3,085 \$6,460	-\$3,085 -\$6,460		
Scared Straight	+6.8% (10)	-\$8,355	-\$6,253	\$58	-\$14,667		
Counseling/psychotherapy for juvenile offenders	-18.9% (6)	\$23,126	\$17,309 \$26,153	n/e n/e	n/e n/e		
Juvenile education programs Other family-based therapy programs	-17.5% (3) -12.2% (12)	\$41,181 \$15,006	\$26,153	n/e n/e	n/e n/e		
Team Child	-10.9% (2)	\$5,759	\$4,131	n/e	n/e		
Juvenile behavior modification Life skills education programs for juvenile offenders	-8.2% (4) -2.7% (3)	\$19,271 \$6,441	\$12,238	n/e n/e	n/e n/e		
Diversion progs. with services (v. regular juvenile court)	-2.7% (3) -2.7% (20)	\$6,441 \$1.441	\$4,091 \$1,034	n/e n/e	n/e n/e		
Juvenile cognitive-behavioral treatment	-2.5% (8)	\$3,123	\$2,337	n/e	n/e		
Court supervision vs. simple release without services	0% (8)	\$0	\$0	n/e	n/e		
Diversion programs with services (v. simple release) Juvenile intensive probation (as alternative to incarceration)	0% (7) 0% (5)	\$0 \$0	\$0 \$0	n/e n/e	n/e n/e		
Guided Group Interaction	0% (4)	\$0	\$0	n/e	n/e		
Prevention Programs (crime reduction effects only)							
Nurse Family Partnership-Mothers Nurse Family Partnership-Children	-56.2% (1) -16.4% (1)	\$11,531 \$8,632	\$8,161 \$4,922	\$5,409 \$733	\$14,283 \$12,822		
Pre-K education for low income 3 & 4 year olds	-14.2% (8)	\$8,145	\$4,644	\$593	\$12,022		
Seattle Social Development Project	-18.6% (1)	\$1,605	\$4,341	n/e	n/e		
High school graduation Guiding Good Choices	-10.4% (1) -9.1% (1)	\$1,738 \$570	\$2,851 \$2,092	n/e n/e	n/e		
Parent-Child Interaction Therapy	-3.7% (1)	\$268	\$784	n/e	n/e		
Program types in need of additional research & development bet			ce crime outcon	nes:			
Programs needing more research for people in the adult offende Case management in the community for drug offenders		Comment					
COSA (Faith-based supervision of sex offenders)	0% (13) -22.3% (1)	Findings are mixed for Too few evaluations	or this broad groupi to date	ng of programs.			
Day fines (compared to standard probation)	0% (1)	Too few evaluations					
Domestic violence courts Faith-based programs	0% (2) 0% (5) 0% (4)	Too few evaluations Too few evaluations					
Intensive supervision of sex offenders in the community	0% (5)	Findings are mixed f	or this broad groupi	ng of programs.			
Medical treatment of sex offenders	-21.4% (1)	Too few evaluations	to date.				
Mixed treatment of sex offenders in the community Regular parole supervision vs. no parole supervision	0% (2) 0% (1)	Too few evaluations					
Restorative justice programs for lower risk adult offenders	0% (1)	Too few evaluations to date. Findings are mixed for this broad grouping of programs.					
Therapeutic community programs for mentally ill offenders	-20.8% (2)	Too few evaluations	to date.	J F			
Work release programs (from prison)	-4.3% (4)	Too few recent evalu	uations.				
Programs needing more research for youth in the juvenile offend Dialectical Behavior Therapy	ler system 0% (1)	Too few evaluations	to date				
Increased drug testing (on parole) vs. minimal drug testing	0% (1)	Too few evaluations	to date.				
Juvenile curfews	0% (1) 0% (2)		Too few evaluations to date.				
Juvenile day reporting Juvenile jobs programs	0% (2) 0% (3)	Too few evaluations to date. Too few recent evaluations.					
Juvenile therapeutic communities	0% (1) 0% (1)	Too few evaluations					
Mentoring in juvenile justice	0% (1)	Too few evaluations					

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What Works Best?
What Doesn't?

What Can Give Taxpayers a Good Return on Their Money?

Given the Current Level of Rigorous Research, What Don't We Know?

Example Criminal Justice Program Ranking



Change In	Benefits less costs, n per-person, life cycle		
Crime			
-18%	\$15,079		
-8%	\$13,555		
t -7%	\$12,037		
-6%	\$9,588		
-9%	\$6,264		
-2%	-\$2,174		
-18%	\$32,021		
- 13%	\$18,120		
- 9%	\$15,257		
-10%	\$29,721		
-18%	\$64,486		
	-18% -8% -7% -6% -9% -2% -18% -13% -9% -10%		





- Criminal Justice
- K-12 Education
- Child Welfare
- Substance Abuse
- Mental Health

- Public Assistance
- Housing
- Teen BirthPrevention
- Public Health



Pew's Results First initiative

- Provides model to state
- Trains staff in the approach
- Provides technical assistance in getting the model up and running
- Helps staff interpret results for policy makers
- Compiles and shares lessons learned with other participating states
- Periodically expands and updates model





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